

In making this rejection, the Examiner bears the burden of establishing a *prima facie* case of obviousness based upon the prior art. The Examiner can satisfy this burden only by showing some objective teaching in the prior art or that knowledge generally available to one of ordinary skill in the art *would lead* that individual to combine the relevant teachings of the references. *See, e.g., Ex parte Obukowicz*, 27 U.S.P.Q.2d 1063, 1065 (Bd. Pat. App. & Int. 1993).

The Examiner has stated that the Goodman PCT publication teaches "a viscous hydrogel composition containing nitroimidazole (*e.g.*, timidozole) for treating inflammed skin disease" and argues that the secondary references provide the motivation to use the compounds of the Goodman PCT publication to treat "atopic dermatitis." Contrary to the Examiner's position, there is nothing in the prior art as a whole to suggest the desirability, and thus the obviousness, of making the combination. Instead, the prior art as a whole suggests that atopic dermatitis is clearly distinguished from other types of diseases in eczema, and atopic dermatitis is the most difficult one to be treated. This is shown, for example, in WO 93/20817 (previously submitted in an IDS filed on May 17, 2004 and attached hereto as Exhibit A) (hereinafter, the "WO '817 publication").

The WO '817 publication discloses a pharmaceutical composition for the treatment of inflammatory and/or infectious skin conditions (*see* page 1, lines 10-13). In the section "Background of the invention" in the WO '817 publication, specific diseases to be treated are described as acne, rosacea, and seborrhoea (*see* page 1, lines 25-31 and page 2, lines 12-17). In this connection, the WO '817 publication describes "a pharmaceutical composition for the treatment or prophylaxis of inflammatory and/or infectious skin conditions or diseases of the type mentioned above (page 3, lines 19-22). The WO '817 publication describes "the use of the compound of formula (I) for the treatment of inflammatory and/or infectious skin conditions of the eczema, acne and/or rosacea type" (*see* page 6, lines 24-26). However,

regarding the treatment of eczema, the WO '817 publication describes "[o]ne type of eczema which has been treated effectively in this way is the seborrheic variety" (page 6, lines 26-28). This description in the WO '817 publication clearly indicates that eczema encompasses various types of diseases and eczema does not necessarily mean atopic dermatitis. This is further evidenced by the fact that the WO '817 publication has no working examples wherein atopic dermatitis is treated.

The alleged obviousness of applicants' claimed invention appears to be the result of impermissible hindsight reconstruction. The mere fact that references can be combined or modified does not render the resultant combination obvious unless the prior art also suggests the desirability of the combination. The Examiner has adduced no evidence that shows one of ordinary skill in the art would have been motivated to use the composition described in the present application in a method of treating atopic dermatitis as presently claimed. Rather, applicants have shown that at the time of applicants' invention one of ordinary skill in the art would have considered atopic dermatitis as clearly distinguished from other types of diseases in eczema. Accordingly, when the prior art is taken as a whole one of ordinary skill in the art would not have been motivated to treat atopic dermatitis (as described, according to the Examiner, by the secondary references) with tinidazole (as described, according to the Examiner, in the Goodman PCT publication).

Moreover, the treatment of atopic dermatitis is not the same or similar to treatment of other skin diseases. The treatment of atopic dermatitis has been very difficult. In fact, the course of atopic dermatitis has not been determined and, although there are pharmaceutical compositions for the treatment of atopic dermatitis on the market, not until applicants' invention has an effective pharmaceutical composition for the treatment of atopic dermatitis been developed. Under such circumstances, an effective pharmaceutical composition for the treatment of atopic dermatitis has been strongly desired for many years. Thus, the present

inventors have studied hard and finally found an effective pharmaceutical composition for the treatment of atopic dermatitis (*see* page 1, line 20 to page 2, line 25 of the present application). Furthermore, unexpected and excellent effects produced by the present invention, *i.e.*, specific two compounds, metronidazole and tinidazole, are demonstrated in the Examples of the present specification.

Therefore, even if the Examiner is considered to have set forth a *prima facie* case of obviousness (which applicants' certainly disagree), the unexpected results of the claimed invention and the long felt but unmet need solved by the present invention are sufficient objective indicia of non-obviousness.

In view of the above, the Examiner's obviousness rejection is not proper. Withdrawal of such rejection is thus respectfully requested.

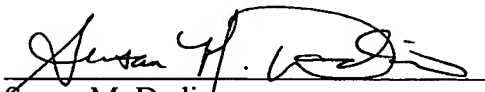
From the foregoing, further and favorable action in the form of a Notice of Allowance is respectfully requested and such action is earnestly solicited.

In the event that there are any questions concerning this Reply or the application in general, the Examiner is respectfully requested to telephone the undersigned attorney so that prosecution of the application may be expedited.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date: December 1, 2006

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EXHIBIT A

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

(51) International Patent Classification ⁵ : A61K 31/415		A1	(11) International Publication Number: WO 93/20817 (43) International Publication Date: 28 October 1993 (28.10.93)
(21) International Application Number: PCT/SE93/00276 (22) International Filing Date: 31 March 1993 (31.03.93) (30) Priority data: 9201188-1 14 April 1992 (14.04.92) SE		(81) Designated States: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. In English translation (filed in Swedish).	
(71) Applicant (for all designated States except US): HYDRO PHARMA SVERIGE AB [SE/SE]; P.O. Box 50310, S-202 13 Malmö (SE). (72) Inventor; and (75) Inventor/Applicant (for US only) : SJÖLUND, Eilert [SE/SE]; Köpmangatan 4B, S-871 30 Härnösand (SE). (74) Agent: AWAPATENT AB; Box 45086, S-104 30 Stockholm (SE).			
(54) Title: NOVEL USE OF NITROIMIDAZOLES			
<div style="text-align: center;"> <p>(I)</p> </div>			
(57) Abstract The use of a compound of formula (I) wherein R is: a) $-(CH_2)_mSO_2(CH_2)_nCH_3$ where $m = 2-3$ and $n = 0-1$; or b) $-(CH_2)_mSO_2CH(CH_3)_2$ where $m = 2-3$ for the preparation of a pharmaceutical composition for the treatment, especially the topical treatment, of inflammatory and/or infectious skin conditions.			

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Novel use of nitroimidazoles.

5 Technical Field

The present invention relates to a novel pharmaceutical use of a specific group of imidazoles known per se in the past and also known in a medical context. More particularly, the invention relates to the use of the above compounds for the preparation of a pharmaceutical composition for the treatment of inflammatory and/or infectious skin conditions.

15 Background of the invention

Acne vulgaris is a disease state which is distinguished by infected and blocked up sebaceous glands with inflammation in the surrounding tissue.

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Acne often commences with hyperproliferation of corneocytes and the formation of an adhesive generating structure which binds the corneocytes together and forms a plug in the sebaceous gland canal. These closed comedones, also known as "whiteheads", are the first stage of acne. The closed comedones develop further into open comedones, "blackheads", or to inflammatory lesions of the papula or pustule type. These can then deepen and form cystic acne. Common to all of these conditions is the presence of large numbers of Propionibacterium acnes, P. acnes.

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The treatment of acne is diversified. Superficial and moderately severe acne, acne vulgaris, is locally treated especially with benzoyl peroxide, antibiotics and vitamin A derivatives. Benzoyl peroxide gives a complete recovery in around 60% of cases, but often causes side effects in the form of redness, irritation and dryness. An increase

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in the frequency of a cancer, melanoma, after treatment with benzoyl peroxide is currently under discussion in the literature (see Jones G.R.N, Human Toxicology, (1985) 77: pp 413-421, "Skin Cancer: Risk to Individuals").

- 5 Antibiotics provide recovery frequencies of the same order of magnitude as for benzoyl peroxide. Lately, falling efficacy linked to the development of resistance has been mooted. Vitamin A derivatives have good efficacy against acne except for local side effects and even teratogenic effects.
- 10

Rosacea, previously known as acne rosacea, is a disease state which is distinguished by superficial inflammation, especially in the face. Nowadays, rosacea is treated

15 inter alia with metronidazole.

Seborrhoea is a disease state which is distinguished by desquamating skin, often in conjunction with itching. In severe cases, a crust is formed which gives rise to mixed

20 infections. Seborrhoeic eczema can be regarded partly as an inflammatory reaction and partly as an infection of Pitosporum ovale. Treatment nowadays is with steroids and in simpler cases with selenium sulphide and metronidazole.

- 25 In summary, it is apparent that the currently used remedies all exhibit one or more drawbacks as regards the abovementioned disease states.

As foreshadowed above, the compounds which are used

30 according to the present invention are known per from the past. In this connection, the following can be named as examples of references describing the compounds and their preparation:

- M.W. Miller, H.L. Howes and A.R. English,
- 35 Antimicrobial Agents and Chemotherapy, 1969, pp 257-260, "Tinidazole, a potent new antiprotozoal agent";
- H. Beckman, Drug Therapy 1963-64, pp 383-384, "Vaginal

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trichomoniasis and monoiliasis";

G. Berkelhammer and G. Asato, (1968) Science 162: 1146 "2-amino-5-(1-methyl-5-nitro-2-imidazolyl)-1,2,4-thiadizole: A new microbial agent";

- 5 H.L. Howes et al., Antimicrobial Agents and Chemotherapy, 1969, pp 261-266, "Tinidazole, a new antiprotozoal agent"; and

J. Azawa et al., (1965) J. Med. Chem. 8: pp150-153, "Substituent constants for aliphatic..."

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Additionally, as regards the efficacy of tinidazole against parasites, for example, a description appears in "Tinidazole: A review...", (1976) Drugs 11: pp423-440.

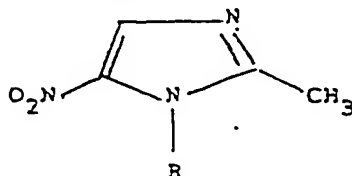
15 Description of the invention

The present invention relates to a novel medical use of known pharmaceutically active substances and more particularly to the use of these for the preparation of a
20 pharmaceutical composition for the treatment or prophylaxis of inflammatory and/or infectious skin conditions or diseases of the type mentioned above. Aside from providing a useful alternative to the abovementioned forms of treatment, the compounds used in accordance with
25 the present invention also enable the elimination or at least reduction of the drawbacks or side effects arising in relation to the known remedies. They are, moreover, of particular interest against a combination of infection and inflammation.

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In more concrete terms, the use of the invention relates to the use of a compound of the formula (I)

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(I)

wherein R is:

5 a) $-(\text{CH}_2)_m\text{SO}_2(\text{CH}_2)_n\text{CH}_3$
where $m = 2-3$ and $n = 0-1$; or

b) $-(\text{CH}_2)_m\text{SO}_2\text{CH}(\text{CH}_3)_2$
where $m = 2-3$

10 for the preparation of a pharmaceutical composition for
the treatment, especially the topical treatment, of
inflammatory and/or infectious skin conditions.

Compounds used in accordance with the invention within
15 variant a) are:

methyl(2-(2-methyl-5-nitro-1-imidazolyl)ethyl)sulfone
($m = 2$, $n = 0$);
ethyl(2-(2-methyl-5-nitro-1-imidazolyl)ethyl)sulfone
20 ($m = 2$, $n = 1$);
methyl(2-(2-methyl-5-nitro-1-imidazolyl)propyl)sulfone
($m = 3$, $n = 0$); and
ethyl(2-(2-methyl-5-nitro-1-imidazolyl)propyl)sulfone
($m = 3$, $n = 1$).

25 Compounds within variant b) used in accordance with the
invention are:

isopropyl(2-(2-methyl-5-nitro-1-imidazolyl)ethyl)sulfone
30 ($m = 2$); and
isopropyl(2-(2-methyl-5-nitro-1-imidazolyl)propyl)sulfone
($m = 3$).

Of the above compounds, the use of ethyl(2-(2-methyl-5-
35 nitro-1-imidazolyl)ethyl)sulfone is particularly
preferred.

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As indicated above, the compounds used in the practice of the invention are known per se from the past and therefore can be obtained direct from commercial sources or prepared by techniques that are in themselves known, e.g. by
5 analogy to the preparative methods recited in the above mentioned references.

The amount or concentration of the compound used is, of course, selected on the basis of the infectious or
10 inflammatory condition which is to be treated. However, a preferred concentration of the compounds in question is 0.25 to 5 weight percent, calculated on the total weight of the composition, a particularly favoured concentration regime being 0.5 to 2 weight percent, calculated on the
15 same basis.

In other respects the pharmaceutical composition can be prepared by techniques that are in themselves known using known additives, depending on the desired mode of
20 application. Topical application is considered of primary importance in this connection with the preferred modes of application being creams, gels and emulsions. Preparative methods for these dosage forms are, of course, described in innumerable references and need not be further recited
25 here.

A particularly preferred dosage form, however, is one employing "hydrophilic solid crystals". Production of these is described, inter alia, in British patent
30 publication 1,174,672 to which reference is made in this connection.

Generally speaking, however, the latter process requires blending a polar lipid which has the capacity to form said
35 hydrophilic crystals with water or any other polar liquid with corresponding properties such as glycerol, ethylene glycol or propylene glycol to form a mixture with a

concentration of water or other polar liquid of 50 to 59 weight percent. This mixture is brought to a temperature over the "transition temperature" for the particular lipid, this temperature being defined as the lowest temperature at which a lipid particle in contact with excess water or said polar liquid can absorb water or said polar liquid and be converted to cylindrical or spherical particles, "liposomes", exhibiting strong birefringency. The mixture is maintained over said temperature, with agitation, until conversion has taken place and then cooled under continued agitation to room or some other desired temperature, such that surface active solid crystals are formed. The compound of formula (I) used in accordance with the invention can be added before the lipid in question has been converted to liposomes or while it is still in liposome form.

Examples of conventional additives which can be incorporated in the pharmaceutical composition used in accordance with the invention are conventional carriers, consistency agents or regulators, pH regulators etc.

Particularly preferred embodiments of the invention involve the use of a compound of formula (I) for the treatment of inflammatory and/or infectious skin conditions of the eczema, acne and/or rosacea type. One type of eczema which has been treated effectively in this way is the seborrhoeic variety. In particular, it is thus apparent that the use of the invention can be employed against conditions having their origin in an infectious and an inflammatory component.

Examples

The invention will now be further illustrated with reference to the following non-limiting examples where various dose forms are exemplified.

5 Example 1

A cream preparation containing the following components was prepared:

	1-glycerol monolaurate	7 wt%
10	1-glycerol monomyristate	21 wt%
	Propylene glycol	30 wt%
	Tinidazole	2 wt%
	Purified water to	100 wt%

- 15 Buffering systems, tensides and consistency agents can be incorporated in the cream for cosmetic purposes.

The cream was prepared in the following manner. The ingredients were mixed and the mixture heated to 70°C.

- 20 After 15 minutes at this temperature, the mixture was cooled to room temperature at a rate of 1 - 3°C per minute.

- The cream was tested on eight patients with moderately
25 severe acne. Former treatments had been terminated at least one week before the treatment of the invention was initiated. Efficacy was evaluated on the basis of the number of papulae and pustules on the face and compared with historical data. Treatment was carried out for 2 - 5
30 weeks in contrast to the usual 8 weeks which formed the basis of the historical data (see Tables 1 & 2). No side effects were evident. One patient left the study due to periodic dermatitis.

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TABLE 1

Calculation of the reduction in number of papulae and pustules

Patient no.	Before		After	
	Papulae	Pustules	Papulae	Pustules
1	72	3	12	0
2	18	13	36	0
3	20	0	0	0
4	29	20	30	2
5	32	4	11	1
6	37	1	0	0
7	46	1	6	0
8	37	1	16	0
Total	451	43	115	3
Percent reduction			74.4	93.0

25

TABLE 2.Overall Assessment

	Patients	Doctor's assessment
Much better	3 (37%)	0-25% -
Noticeably better	4 (50%)	26-50% 1
Better	-	51-75% 4
Unchanged	1 (13%)	76-100% 3
Worse	-	
Much worse	-	

Example 2

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A gel containing the following ingredients was prepared in the same manner as described in Example 1.

	Tinidazole	2	wt%
10	Propylene glycol	20	wt%
	Thickening agent	0.5	wt%
	Purified water to	100	wt%

15 The gel was given to patients with seborrhoeic eczema on the scalp. Earlier therapy with known agents had not had any result. When using the gel of Example 2, the patients became symptom free with 2 to 3 applications per week.

Example 3

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An emulsion with the following composition was prepared:

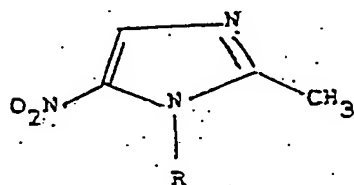
	Liquid paraffin	30	g
	Sorbitan mono-oleate	1	g
25	Polyoxyethylene (20) stearate	1	g
	Water	65.6	g
	Carbomer	0.4	g
	Tinidazole	2	g

30 The liquid paraffin was mixed with the sorbitan mono-oleate, heated to 70°C and tinidazole then mixed in. The polyoxyethylene (20) stearate, water and carbomer were mixed, homogenized and heated to 70°C. Under vigorous homogenizing, the different partial mixtures were mixed
35 and the temperature allowed to drop to room temperature.

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CLAIMS

1. Use of a compound of the formula (I)

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(I)

10 wherein R is:

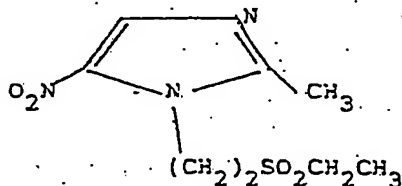
a) $-(CH_2)_m SO_2 (CH_2)_n CH_3$
 where $m = 2-3$ and $n = 0-1$; or

15 b) $-(CH_2)_m SO_2 CH(CH_3)_2$
 where $m = 2-3$

for the preparation of a pharmaceutical composition for
 the treatment, especially the topical treatment, of
 20 inflammatory and/or infectious skin conditions.

2. The use of a compound of the formula (I) according to
 claim 1, wherein the compound is ethyl(2-(2-methyl-5-
 nitro-1-imidazolyl)ethyl)sulfone with the formula:

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3. The use of a compound of the formula (I) according to
 claim 1 or 2 for the preparation of a pharmaceutical
 composition for the treatment of eczema, especially
 35 seborrhoeic eczema.

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4. The use of a compound of the formula (I) according to claim 1 or 2 for the preparation of a pharmaceutical composition for the treatment of acne.
- 5 5. The use of a compound of the formula (I) according to claim 1 or 2 for the preparation of a pharmaceutical composition for the treatment of rosacea.
6. The use of a compound of the formula (I) according to
10 any one of the preceding claims, wherein the compound is present in the composition in a concentration of 0.25 to 5 weight percent, calculated on the total weight of the composition.
- 15 7. The use of a compound of the formula (I) according to claim 6, wherein the concentration of the compound is 0.5 to 2 weight percent, calculated on the total weight of the composition.
- 20 8. The use of a compound of the formula (I) according to any one of claims 1 to 7 for the preparation of a pharmaceutical composition in the form of solid surface active crystals.
- 25 9. A method for the treatment of inflammatory and/or infectious skin conditions which comprises the administration, preferably topically, of a compound of the formula (I) in a pharmaceutical composition as defined in any one of claims 1 to 8 to a patient afflicted with such
30 a condition.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 93/00276

A. CLASSIFICATION OF SUBJECT MATTER		
IPC5: A61K 31/415 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC5: A61K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
SE,DK,FI,NO classes as above		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
CAS-ONLINE, MEDLINE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,Y	WO, A1, 9203133 (BLOOM LEONARD ET AL), 5 March 1992 (05.03.92) --	1-8
Y	WO, A1, 8806888 (CURATEK PHARMACEUTICALS, INC.), 22 Sept 1988 (22.09.88) -- -----	1-8
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
11 June 1993		14 -07- 1993
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86		Authorized officer Göran Karlsson Telephone No. +46 8 782 25 00

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/SE 93/00276

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 9
because they relate to subject matter not required to be searched by this Authority, namely:

A method for treatment of the human or animal body by therapy,
see rule 39.1
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such
an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT
Information on patent family members

30/04/93

International application No.
PCT/SE 93/00276

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A1- 9203133	05/03/92	AU-A- 6405290	17/03/92
WO-A1- 8806888	22/09/88	AU-B- 610495	23/05/91
		AU-A- 7233787	10/10/88
		EP-A,B- 0305380	08/03/89
		SE-T3- 0305380	

Form PCT/ISA/210 (patent family annex) (July 1992)